

19980215.qrp v01_n002.qrs.980215

Date: Sun, 15 Feb 1998 19:03:10 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1002

QRP-L Digest 1002

Topics covered in this issue include:

- 1) [3852] Re: NEW - Expanded Ade Weiss Article
by Bill Todd <bill@willapabay.org>
- 2) [3853] Revised '40-40' board
by Bensondj@aol.com
- 3) [3854] RE: AH7R 21.058 1834Z
by Monte Stark <ku7y@sage.dri.edu>
- 4) [3855] Re: RS Freq Counter Update & Summary...
by David Adams <adamsclan@netgate.net>
- 5) [3856] Re: N8VZU/AG
by Tim Ahrens <tahrens@inetport.com>
- 6) [3857] Manual wanted, HW-104
by Michael Neverdosky <MichaelN@cycat.com>
- 7) [3858] FS: MFJ-422BX Keyer
by AE0Q V31RY <v31ry@ix.netcom.com>
- 8) [3859] QRPTTF from 3-Corners
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- 9) [3860] Re: N8VZU/AG
by Lynn Simons <lsimons1@ix.netcom.com>
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by Lynn Simons <lsimons1@ix.netcom.com>
- 11) [3862] Re KENT KEYS
by Jay Bromley <w5jay@cei.net>
- 12) [3863] Re: spelling errors
by chefsaul@juno.com
- 13) [3864] Your Opinion Please
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- 14) [3865] Smite #4 lives!
by "Claton Cadmus" <aplitech@spacestar.net>
- 15) [3866] Info please-on MFJ CWF-2 audio filter
by ka7you@juno.com
- 16) [3867] Re: LASER QRP
by Dave Fifield <fifield@pacbell.net>
- 17) [3868] Sierra on 10 m
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
- 18) [3869] Re: SWLmer Prerequisites: Metering
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 19) [3870] FW: RE: Your Opinion Please

- by gregoire@endor.com
- 20) [3871] Ramsey SCAF
by KB9JJA QRP Account <qrp@thekeep.mcs.accessus.net>
- 21) [3872] Re: OHR400/DD-1
by "John J. McDonough" <jjmcd@mdn.net>
- 22) [3873] 10 m module for Sierra
by "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
- 23) [3874] QRM from RTTY
by John Anthony Reynolds <D2250077@infotrade.co.uk>
- 24) [3875] MFJ CWF-2 filter
by af852@rgfn.epcc.Edu (William R Colbert)
- 25) [3876] Re: Info please-on MFJ CWF-2 audio filter
by K5BDZ@aol.com
- 26) [3877] Minneapolis
by K4AHK@ix.netcom.com
- 27) [3878] FOX:Results Sat N/t Fox, W2MBY
by W2MY & W2MBY <n2mnn@spacegate.com>
- 28) [3879] dits & dashes
by "tom palmer" <n1tp@worldnet.att.net>
- 29) [3880] LDG AT-11 Fine Tuning ??l
by "Mike Rhodes" <weightdn@bright.net>
- 30) [3881] Re: N8VZU/AG
by "Frank A. West" <ke6vhm@earthlink.net>
- 31) [3882] Re: Am I ready? Update
by "Frank A. West" <ke6vhm@earthlink.net>
- 32) [3883] Re: QRM from RTTY
by Monte Stark <ku7y@sage.dri.edu>
- 33) [3884] Re: Knightlite SMiTe
by nq2rp@juno.com (B/BAMS Club Station)
- 34) [3885] Re: LDG AT-11 Fine Tuning ??l
by "JUNIUS B FOX" <w5hir@gte.net>
- 35) [3886] Re: SWLmer Prerequisites: Metering
by Monte Stark <ku7y@dri.edu>
- 36) [3887] FYBO report - a bit late!
by TonyDrumm@ibm.net (Tony Drumm)
- 37) [3888] FS: TenTec Argosy II + PS
by N3BJ@aol.com
- 38) [3889] Re: Laser QRP
by "Robert D. Haslach" <rhaslach@CapAccess.org>
- 39) [3890] 160M QRPP Beacon Summary
by Paul Stroud <aa4xx@ipass.net>
- 40) [3891] Re: QRM from RTTY
by Ed <edn4pk@VoyagerOnline.net>
- 41) [3892] Typo in Fox hunt report
by W2MY & W2MBY <n2mnn@spacegate.com>
- 42) [3893] For Sale argo-505
by jim <kw3u@warwick.net>
- 43) [3894] FYBO'98

by "Bob Edwards, W4ED" <w4ed@flash.net>
44) [3895] Re: N8VZU/AG
by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
45) [3896] Re: Am I ready? Update
by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
46) [3897] Re: Am I ready? Update
by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
47) [3898] PICs and stuff, part 3 (long)
by Laura Halliday <ve7ldh@direct.ca>
48) [3899] RE>QSLing Sputnik 40
by herr@ridgecrest.ca.us (Michael Herr)
49) [3900] PV-powered battery chargers
by The Boices <boice@bigfoot.com>
50) [3901] Wanted: RTTY software
by kt3a@juno.com (Cameron C.R. Bailey)
51) [3902] FDIM registrations coming in
by kt3a@juno.com (Cameron C.R. Bailey)
52) [3903] TKIT 1340 advice
by penzo@juno.com (Michael A Penzo)
53) [3904] FOUND! RS #22-305 freq. counters - still on shelf
by "Bruce Barley" <lbbbarley@feist.com>

Date: Sat, 14 Feb 1998 16:23:25 -0800
From: Bill Todd <bill@willapabay.org>
To: mikemo@ibm.net
Cc: nwq-1@scn.org, qrp-1@Lehigh.EDU
Subject: [3852] Re: NEW - Expanded Ade Weiss Article
Message-ID: <1.5.4.32.19980215002325.0071ae24@willapabay.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:15 PM 2/12/98 -0500, you wrote:

>URL?

>

>72 de kf4trd

Oh - Sorry about that!

I thought that everyone already knew the NW QRP Club Web Page address (hi).
Brian has a link from our official web page, to mine.

Here is my personal web page...which contains the graphic quality
newsletter. Look for the Index, and then look for the article titled
"Effective Antennas".

<http://www.willapabay.org/~bill>

CUL, Bill-N7MFB

Date: Sat, 14 Feb 1998 20:04:50 -0500 (EST)
From: Bensondj@aol.com
To: qrp-1@lehigh.edu
Subject: [3853] Revised '40-40' board
Message-ID: <980214200450_2001102614@mrin54>

on Sat, 14 Feb 1998 00:41:10 -0500, Rick McNelly,
<72507.235@compuserve.com>
wrote:

>>Subject: [3807] elmer101: QRP Power book

>>the book "QRP Power" has two excellent articles on the original 40-40
>>transceiver project. Some extra mods are included too.
>> I hope the revised version of the circuit board will not grow any larger
in
>>size, I have a great enclosure waiting for this rig.

Rick and all-

The revised board layout is the same size as the original (2.8 x 4.0") and
with the same mounting hole locations. I should have initial printed-circuit
prototypes within a week.

73, Dave Benson- NN1G

Date: Sat, 14 Feb 1998 17:33:47 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: gregoire@endor.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3854] RE: AH7R 21.058 1834Z
Message-ID: <Pine.SUN.3.90.980214173151.13050B-1000000@vortex>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

No AH7R heard here. But again, check 15m.

Today with 5w I worked N2NL/KH2, VE3BW/HR6, T88TT and 3W6KA.

Was in the pile up for the 9M0C with 5w but still no good that way! (I did check the log box on the WEB and I'm in there with 100w so it's qrp time now!)

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sat, 14 Feb 1998 18:17:43 -0800
From: David Adams <adamsclan@netgate.net>
To: radman@best.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3855] Re: RS Freq Counter Update & Summary...
Message-ID: <34E65047.33DD3BA8@netgate.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, I spent yesterday afternoon on the phones myself, I found a few stores according to one helpful salesman's computer, but by the time I'd get finished dialing, it would have invariably gone out the door a few seconds before. I finally found one in Gilroy and the guy said he'd hold it overnight for saturday pickup.

Well, I got there and what do I see? The counter sitting on a shelf, behind the counter with a big clearance sign on it. The guy forgot to set it aside! However, happily nobody else had snagged it, so it is now mine!

73 de dave, n9uxu

--

David J Adams, N9UXU

adamsclan@netgate.net

Amateur Radio, Flow Cytometry, Digital Photography and Parrot enthusiast

<http://u1.netgate.net/~adamscian>

Date: Sat, 14 Feb 1998 20:11:30 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: Shepherd@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3856] Re: N8VZU/AG
Message-ID: <34E64ED2.40CB23D@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

YAHOO!!! Congratulations Dan, glad to have you aboard... I expect to hear you calling me on Monday as the Fox!! Whee, 1st pelt for a new general!

cu

Tim W5FN

Date: Sat, 14 Feb 1998 21:21:51 -0500
From: Michael Neverdosky <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.EDU>
Subject: [3857] Manual wanted, HW-104
Message-ID: <34E6513F.B25C705E@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'm looking for the manual for the HeathKit HW-104.

Will gladly pay copy/shipping cost.

michael N6CHV

Date: Sat, 14 Feb 1998 19:33:11 -0700

From: AE0Q V31RY <v31ry@ix.netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [3858] FS: MFJ-422BX Keyer
Message-ID: <2.2.16.19980215023311.11e72794@popd.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale: MFJ-422BX Keyer

Mounts over the base of a Bencher or MFJ-564 paddle, nice portable keyer/paddle. Iambic keying (Curtis 8044ABM chip), has speed (8-50 wpm), weight, tone, and volume controls. Keying outputs for solid-state rigs or Grid-block keying. Automatic or semi-auto (bug) mode. Runs on internal 9v battery or external DC power. With manual. \$45 shipped

73 -- Glenn 303-986-6379

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com --SOWP 5558-M, ARRL LM, QCWA LM, NCVA--
<http://www.qsl.net/ae0q>

Date: Sat, 14 Feb 1998 19:47:06 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@Lehigh.EDU
Subject: [3859] QRPTTF from 3-Corners
Message-ID: <Pine.SOL.3.91.980214192305.21870C-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
Well, now that we've thawed out from FYBO, about time to think about the possibilities of maybe perhaps getting kinda almost ready for QRPTTF (QRP To The Field at the end of April). The theme for this years contest is "Run to the Border" or something like that. The idea behind it is to get QRPers to travel to one of their state borders, and perhaps this way, get a few of those rare states on the air. If you work a station on a state line, you of course get two multipliers for that contact, and the stations who make the effort to operate from a state line also get two points. Double bonus for all.

FOUR-CORNERS (NM/CO/UT/AZ) will be on the air by some of the NM and AZ ops ... so look for them. Details no doubt to follow.

THREE-CORNERS ... Tim K5OI and I decided to operate QRPTTF from 3-corners. This is a spot near El Paso, TX where New Mexico/Texas/Mexico joins. There's a hill with a monument on top marking the spot, with the Rio Grande flowing right in front of it. So we're gonna setup on the banks of the Rio Grande river across from the monument to operate (since we'd have to tread water to get any closer). Thus, each contact with K5OI or NA5N will count for NM/TX/XE (Mexico). Your NAFTA contact! That way you can also get a QRP DX contact in your log -hi.

If there's any QRPers in the Las Cruces/El Paso area that want to join us, or doing a similar thing, just let me know. As a minimum, we can at least meet for breakfast or something and have an eyeball QSO.

So start thinking about what state line you'll put on the air. Such an activity is great for a handful of QRPers or a club event. Help the QRPers with WAS (Worked All States) by getting those rare ones on ... or even the quasi-rare ones like Nebraska, the Dakotas, or the maritime provinces (hint, hint VE's).

72, Paul NA5N

Date: Sat, 14 Feb 1998 20:41:00 -0600
From: Lynn Simons <lsimons1@ix.netcom.com>
To: Shephed@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3860] Re: N8VZU/AG
Message-ID: <34E655BB.351A1106@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Dan,

CONGRADULATIONS!!!! on the upgrade and welcome to the fold! I know you are very excited about it. Especially about passing the 20 WPM code. Now go on and get those last 2 writtens out of the way and sit back, relax, and enjoy your new privileges!

73/72,

Lynn, KJ3V

Birmingham, AL

Date: Sat, 14 Feb 1998 20:44:40 -0600
From: Lynn Simons <lsimons1@ix.netcom.com>
To: eakwik@mail.hac.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3861] Re: Am I ready? Update
Message-ID: <34E65698.FFA77D8B@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Ed,

CONGRADULATIONS to you too! Boy it sure is nice to see people upgrade here! I don't know how this compares to past years but I think we're seeing a lot more upgrades here! Keep up the good work and have fun!! Man, to go from 0 to 20 WPM in one session!!! That is good advertisement for those out there who think CW is just too hard!

Congradulations again!

73/72,

Lynn, KJ3V
Birmingham, AL

Date: Sat, 14 Feb 1998 20:59:57 -0600
From: Jay Bromley <w5jay@cei.net>
To: qrp-1@Lehigh.EDU
Subject: [3862] Re KENT KEYS
Message-ID: <34E65A22.1843@cei.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The gentleman that distributed Kent keys in Mt Ida, Ar. has retired. I try to take over for him but the deal fell through. Try Alpha Delta at 606 598 2029. I hear they now have the distributorship for Kent Keys. Good luck.

73 de W5JAY or just Jay

w5jay@cei.net
Fort Smith, AR.

Date: Thu, 12 Feb 1998 08:31:11 -0500
From: chefsaul@juno.com
To: jeverhar@camden.lmco.com
Cc: qrp-1@Lehigh.EDU
Subject: [3863] Re: spelling errors
Message-ID: <19980214.221008.3326.0.chefsaul@juno.com>

this thread is about radio(supposed to be). to err is to be human, to
copy code well is a gift, to be able to criticize someone is to be
cursed. good dx and a great fist and good hearing to you saul ks4aul
On Thu, 12 Feb 1998 08:05:25 -0500 (EST) jeverhar@camden.lmco.com writes:

>Group,
>
>This is a subject of some embarrassment to me!
>
>In my youth, I thought my spelling and grammar were unimpeachable.
>Still
>today, I try my darndest to check what I write and strive for
>perfection.
>
>Alas, in my enfeebled old age (52) I find that I am human. I
>frequently
>interchange letters in words (like typing "filed" instead of "field")
>and often
>use the wrong words - I know what I mean, it just doesn't come out
>right!
>
>So if I do err, please forgive me. It sure looks right to me, but
>like 'most
>everyone, I cannot proofread my own work. So when you see my typos
>please
>ignore them and concentrate on what I mean to say, not how I express
>it. :-)
>
>There now I feel better!
>
>BTW, I averaged about 1.5 typos per line in this message before
>correction!
>
>MEGA :-)

>
>72/73,
>
>Joe E., N2CX
>
>

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 15 Feb 1998 03:14:35 +0000
From: Barb Spencer <barb@quadj.com>
To: qrp-1@Lehigh.EDU
Subject: [3864] Your Opinion Please
Message-ID: <3.0.1.32.19980215031435.007a31b0@onramp.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi, we will have a QRP Special Event station and an all day QRP Forum at HamCom 1998 in Arlington, Texas on June 5,6,7. We are hoping to have a large QRP presence.

We would like to invite each of you to attend HamCom 1998. If you get a chance come on by.

I am working on a handout for those who stop by our special event tent.

Here's where I need your opinion...tell me what you think and I will compile the inputs and share them with visitors to our tent.

What is QRP?

Why QRP?

Best books on QRP?

Best QRP Clubs?

Best QRP newsletters?

Best web pages? (URL)

Kit recommendations?

Do you operate CW or SSB or both?

Any other comments/suggestions relating to QRP.

Thanks in advance for your help.

Please reply directly to barb@quadj.com - not to the entire list.

72 Barbara, KK5QA

Barb Spencer KK5QA

barb@quadj.com

<http://www.startext.net/homes/jspencer/racc.htm>

Date: Sat, 14 Feb 1998 22:30:14 -0600
From: "Claton Cadmus" <aplitech@spacestar.net>
To: "QRP-1" <qrp-1@Lehigh.EDU>
Subject: [3865] Smite #4 lives!
Message-ID: <002701bd39cc\$2c593f80\$f9cebfce@groucho>

I finished my SMiTe and put it in a Sucrets Box, even though these are smaller than an Altoids Box, I still have room for "dual" batteries! I think mine needs a little work. I haven't had time to look it over. But these are the problems I see so far.

1. All the received sigs seem very high pitched. I can't find any low tones.
2. Unless I connect it though my tuner to my antenna I get BCB interference big time.
3. Only getting about 500 hz freq. tuning with C1.
4. Power out is 175mw, maybe a bit low.

Anyone got any ideas? Will trouble shoot it tomorrow.

Great fun to put together and I think I like SMT!

73 de KA0GKC Claton Cadmus

cla@spacestar.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Sat, 14 Feb 1998 23:55:59 EST
From: ka7you@juno.com
To: QRP-L@Lehigh.EDU
Subject: [3866] Info please-on MFJ CWF-2 audio filter
Message-ID: <19980214.210641.8607.0.KA7YOU@juno.com>

I'm looking for specs and any other info on the MFJ CWF-2 audio filter.
Particularly the impedance it is designed to operate with.

Thanks,

Rod Johnson KA7YOU from CN97ak near Issaquah, Wa. 160M thru 1296 MHz
(3456MHz still in the wings)

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 14 Feb 1998 22:36:14 -0800
From: Dave Fifield <fifield@pacbell.net>
To: Dale LeDoux <dledoux@laci.net>
Cc: QRP List <qrp-l@Lehigh.EDU>
Subject: [3867] Re: LASER QRP
Message-ID: <34E68CDE.2E8E@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dale wrote:

> I have a nice 50X but darned if i can

(telephoto lens or binoculars I assume...)

> tell how to figure the dB gain of the darned thing...

It's actually a simple thing to figure. You take the area of the light gathering surface of your lens and divide it by 8.1E-3 sq.in. (this is the light catching surface area of the "standard" OPT210 detector that we use) then take the logarithm of that and multiply it by 10

...you know, the standard power gain equation.

So, for example, if the front of your lens was 6" in diameter (3" radius), the gain would be about $10\log(\pi \times 9 / 8.1E-3) = 35.43\text{dB}$
Quite a bit of gain I'm sure you'll agree!

In reality, your lens system will have quite a bit of loss through it. We have found the best (lowest loss, cheapest) lenses to use are 8.5" x 11" page magnifiers (fresnel lenses). If you want to know more, check out <http://www.qsl.net/wb9ajz/laser/laser.htm>

72, Dave Fifield, AD6AY

Date: Sun, 15 Feb 1998 13:01:57 +0200 (EET)
From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
To: qrp-l@Lehigh.EDU
Subject: [3868] Sierra on 10 m
Message-ID: <01ITLYT4CBXG8Y6CG2@vyh21.vyh.fi>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII
Content-transfer-encoding: 7BIT

Date: Sun, 15 Feb 1998 06:12:05 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "James R. Duffey" <jamesd1@flash.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3869] Re: SWLmer Prerequisites: Metering
Message-ID: <Pine.SOL.3.94.980215053835.8415A-100000@moe>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ah, the lessons of youth that Duffey has triggered. My meter bust was measuring voltage with the probes in the current jacks of a Triplet 666--much to the dismay of my father. I do not have his 666, but I did find another years later, a 666-H that was being thrown out, but still in its original box with leads that had alligator clips (and newcomers likely do not realize that most of the clips they now find are technically crocodile clips, not true alligators) and an instruction sheet dated 1939.

Since my shop at the time I found and rescued the 666 VOM has a Heath VTVM (and a complete set of Heath probes for VTVMs and scopes) and an RCA Volt-Ohmist (Sr., I was once proud to add), the 666 went into current-reading use. All these old instruments still sit at the ready on my bench, along side the DVM, capacitance meter, LCR bridge, and autoranging current meter I developed for my +/-3-15 volt bench supply. The old Heath went through a pair of tubes, replaced by a pair of solid-state tube substitutes, and then replaced by tubes again when Heath stopped supplying the solid-state substitutes. These are the last vacuum tubes (excepting the CRT in the old 338 scope) in the shack.

Those looking for RF probes can do better than look for old tube sockets or smoke cigars: old Heath RF probes are available at hamfests if you dig through the boxes of undifferentiated "junk" (usually mostly wire) at the tailgate portion of the hamfest. You can replace the plugs with new ones to suit your meter. They are not electrically different than those you might build, but they have a very nice case and tip probe, as well as a clip-on ground lead. Even if not operational, you can replace the "innerds" for a couple of dollars. Only difference I recall between the Heath VTVM RF probe and the Scope RF probe was the plug (standard phone plug vs. 3/4" spaced bananas).

What Duffey has said about taking analog readings needs reinforcement these days. For reading stable levels, a DVM/DMM is the instrument of choice. However, for many jobs (gain and other curve tracing, alignment for max or some percentage of max output, etc.), nothing beats an analog meter. A scope is excellent, but if you do not have one, known signal sources and an analog meter can do most of the work. If you have the scope, then your interest in waveshape quality will likely lead you to do a lot of the analog work with that instrument. But without one, adjusting high-pass, low-pass, and bandpass filters (AF or RF) can be done with an analog meter. And they will acquaint you necessarily with basic metering circuits and basic measurement techniques--another very important branch of our radio heritage and good shop knowledge.

It is not just nostalgia for the good old days (well, maybe some of that), but as well, a constant refresher on the basics of measurement.

-73-

LB, W4RNL

Date: Sun, 15 Feb 98 08:30:39 PST

From: gregoire@endor.com
To: Low power amateur radio discussion <qrp-1@Lehigh.EDU>
Subject: [3870] FW: RE: Your Opinion Please
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=us-ascii

-----Original Message-----
<<Any other comments/suggestions relating to QRP.>>

Sure, just fly me and the XYL down there and
pay for the hotel, and I'd be happpppppy to
pass out those brochures. ;-)

BTW the temp here was -5.4 this morning and the
car would not start.

73

de AA1IK,	Time the accursed enemy of man,
Ernie Gregoire	cursed youth for going to slow and by the old for going to fast.

R.R. 1, Box 221,	Fists # 2644, ARCI # 9500
South Rd.	QRP-L # 95, Fly fisher & tier,
Canaan, NH. 03741	Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@WA1WOK.FN43FE.NH.USA.NA

02/15/98 08:25:09

-----End of Original Message-----

de AA1IK,	Time the accursed enemy of man,
Ernie Gregoire	cursed youth for going to slow and by the old for going to fast.

R.R. 1, Box 221,	Fists # 2644, ARCI # 9500
South Rd.	QRP-L # 95, Fly fisher & tier,
Canaan, NH. 03741	Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@WA1WOK.FN43FE.NH.USA.NA

02/15/98 08:30:39

Date: Sun, 15 Feb 1998 06:50:57 -0600 (CST)
From: KB9JJA QRP Account <qrp@thekeep.mcs.accessus.net>
To: qrp-1@Lehigh.EDU
Subject: [3871] Ramsey SCAF
Message-ID: <Pine.LNX.3.93.980215064915.345G-100000@thekeep.mcs.accessus.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I built the ramsey CW filter that is based on 2 SCAF chips. The only mod I made was to replace the 2 push button switches with a diode matrix and a rotary switch. This is a great little kit for the price. It is the only Ramsey kit I have built that I can recomend though.

73's de kb9jja/dale

Date: Sun, 15 Feb 1998 08:56:11 -0500
From: "John J. McDonough" <jjmcd@mdn.net>
To: <rut@mcrut.mv.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3872] Re: OHR400/DD-1
Message-ID: <199802151413.5208800@midland2.mdn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I hate to dredge up the old HTML thread again, but a funny thing happened reading this message and a previous message from Phil. It may happen to others on the list.

In general, when an HTML message appears, my mail reader just displays it, the only clue that it's HTML is that there is a funny background color or font, or perhaps not even that. I may never know.

HOWEVER, Phil's messages were blank. Normally I would assume he fat-fingered the send button or whatever and just ignore it, but I happened to notice that the message size was larger than the minimum. I looked at the message source and found it contained a quite readable message in incorrect HTML. The message looked as if the HTML had been formatted manually, but it is possible that Eudora, the mailer he used, creates bad HTML, or perhaps some settings cause this.

I would advise Eudora users to inspect their settings - it may be that some people see blank messages from them.

73 de WB8RCR

From: Phil Rutledge <rut@mcrut.mv.com>; owner-qrp-l@Lehigh.EDU
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: FS: OHR400/DD-1
Date: Friday, February 13, 1998 11:25 PM

Date: Sun, 15 Feb 1998 16:04:54 +0200 (EET)
From: "Arjen Raateland, FEI/Impacts Research" <Arjen.Raateland@vyh.fi>
To: qrp-l@Lehigh.EDU
Subject: [3873] 10 m module for Sierra
Message-ID: <01ITM6AY4TME8Y658J@vyh21.vyh.fi>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII
Content-transfer-encoding: 7BIT

Sorry for the empty message a bit earlier.

Somebody on this list recently mentioned having problems with tuning the TX side of the 10 m module for his Sierra. I was assembling my own 10 m module at the time and had a note in my manual from who knows where that L3 and L4 should be 20 t rather than 16 t. Well, sure enough I had to add two turns to L3 (first LC in the TX bandpass) to tune right.

I now get about 1 W out. I have a ferrite bead both on the gate of Q5 (J310) and the base of the 2N2222A (Q6). I have replaced the gate resistor of Q5 R11, which originally was 5k1, with 27k and add a resistor in parallel on each module as necessary to maintain stability. My 15 m module has 15k over C35 and the other, lower band,

modules have no extra filter load resistor. For the TX to be stable the 10 m module clearly needs about 10 k (with R11 at 27k in parallel this works out to about 7k).

With R11 of 27k as the only load resistor, the TX would behave as a free running oscillator on 10 m. The output would vary in frequency with the tuning of the second LC circuit TX bandpass filter.

I could see this very well on my spectrum analyser scope adapter (copyright Steven Weber KD1JV). Just monitoring the output power wouldn't have given this situation away so easily. On a GC receiver I could hear the signal on the intended output frequency as if nothing was wrong (more or less).

I need to stress that increasing R11 is a modification of my own. Having the extra ferrite bead on the gate of the J310 (Q5) is good for stability according to my earlier experiments, but for the higher bands extra loading is still needed.

Why increase R11: I hope for the output to be cleaner (higher Q in the band pass filter) and I got a little more gain/output.

With R11 at the original value there shouldn't be problems except that in my case L3 wasn't large enough at 16T. (BTW the trimmer caps on the Sierra modules are at their maximum value when the half moon is on the lower side close to the PCB.)

Perhaps this account is of some value to other experimenters and/or elicits comments from more experienced builders.

73, oh2zaz

Arjen Raateland

Finnish Environment Institute, Helsinki, Finland
SAS Support
EMAIL: Arjen.Raateland@vyh.fi
tel. +358 9 4030 0457
fax +358 9 4030 0490
.-.-. -.-

Date: Sun, 15 Feb 1998 15:15:09 -0000
From: John Anthony Reynolds <D2250077@infotrade.co.uk>
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>
Subject: [3874] QRM from RTTY

Message-ID: <01BD3A24.A0A2CF20@default>

Hi Guys

yet again a weekend ruined by selfish RTTY/Digital Lid op's who will not stick to the Bandplans, yes I know that there was a RTTY Contest but That does not give these clowns the right to mess up 14.050 to 14.100 Mhz.

Jusy imagine the howls of protest if a major CW contest was to spread over a portion of the ssb allocation.

I know that I can use below 14.050 but this part of the band was covered with QRO op's in the PACC contest, we cannot win or can we?

I have one suggestion and that is to use QRO between 14.062 to 14.065 as often as possible and make it obvious to these guys that this part of the band is part of the CW allocation.

Sorry I have blown my top but it is very frustating over here in Europe that the

weekends seem to be a complete washout for any serious DX QRP operation. Comments will be of interest

73 de John G3PT0 GQRP 595

Date: Sun, 15 Feb 98 08:30:24 MST
From: af852@rgfn.epcc.Edu (William R Colbert)
To: ka7you@juno.com, qrp-1@Lehigh.EDU
Subject: [3875] MFJ CWF-2 filter
Message-ID: <9802151530.AA29323@rgfn.epcc.Edu>

Rod, the following was written by Ade Weiss, K8EEG in the Miliwatt, vol III, no 5, Oct 1972,

An adjustable bandwidth audio active filter which utilizes two IC's for four sections of audio filtering. Center frequency is about 750hz a very pleasant place in the audio spectrum, and switching allows for selection of 3 bandwidths: 180, 110, and 80 hz. Voltage gain is 1.2, 1.5, and 2.4 respectively for the above bandwidths. Claimed skirt selectivity is more than 60 db down one octave below and above center frequency. The design features high input impedance (680K ohms) and output is far above 500 ohms load, although it can be used with standard 8 ohm phones or speaker with a slight waveform distortion. (I should note that I did not notice any distortion with my cwf-2)

Will operate on a single supply voltage from 6 - 30 + volts at 8 ma.
An internal 9v battery lasts a very long time, making the little
filter excellent for portable to the field work. The CWF-2 is designed
for installation in a rig while the CWF-2BX is in a stand alone box.
Well worth the price if you can find one. Hope that answers your question.
72/73 Ray

--

Ray Colbert, W5XE
00TC 3618, SOWP 1064M
El Paso, Tx (Far West Texas)
(also: v31xe@dzn.com)

Date: Sun, 15 Feb 1998 10:30:48 EST
From: K5BDZ@aol.com
To: ka7you@juno.com, qrp-1@Lehigh.EDU
Subject: [3876] Re: Info please-on MFJ CWF-2 audio filter
Message-ID: <31659d8d.34e70a2a@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Rod
Contact MFJ for this info
Bill, K5BDZ

Date: Sun, 15 Feb 1998 10:42:55 -0500
From: K4AHK@ix.netcom.com
To: qrp-1 mail <qrp-1@Lehigh.EDU>
Subject: [3877] Minneapolis
Message-ID: <34E70CFE.4457@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I will be in Minneapolis for a class on Sunday, 2/22 thru Tues. 2/24.
What are the best 2m & 440 repeaters? Does anyone know if the windows
of the Holiday Inn (West) can be opened for antennas?

Bill - K4AHK

Date: Sun, 15 Feb 1998 10:44:17 -0500
From: W2MY & W2MBY <n2mnn@spacegate.com>
To: QRP-L messages <QRP-L@Lehigh.EDU>
Subject: [3878] FOX:Results Sat N/t Fox, W2MBY
Message-ID: <34E70D51.5322AF38@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

The Saturday afternoon Foxhunt went pretty nicely. I got a total of 9 contacts in one hour. Of these, 8 were new hunters for me. As I thought, the skip was shorter and the range was more local. Contacts were basically in a triangle from MI to NJ to NS. All of New England was accessible. The first half hour was very busy with a little pileup, but then there were just no more hunters. At this time of the day, there is no interference from the European BC on the Novice band, so why don't you general+ guys help us N/T guys out with some QSOs, especially you people on the East coast. The reason the N/T Fox scores are lower than the regular Fox scores is not totally because of our lack of experience, but because there aren't enough hunters looking for us.

To be able to work both coasts, I am splitting up my operating time. I will be on Feb 21, 00:00 to 01:00 UTC (Friday evening local), as usual, but for one hour only. For the second hour I will be on Feb 21, 19:00 to 20:00 UTC (Saturday afternoon 2 pm EST). This should give most of you a shot at me, and reduce my fatigue.

W2MBY: N/T FOX Feb 14, 1998

	UTC	CALL	SNT	RCD	NAME	ST	OTHER
1.	19:00	WA1VQM	449	599	JOEL	MA	4W
2.	19:03	VE3SP	439	579	RON	ON	
3.	19:14	KA2HJL	589	589	ED	NY	
4.	19:18	N3YSI	579	589	PAUL	PA	5W
5.	19:20	KC1FB	579	589	JIM	CT	
6.	19:25	W3CW	589	589	BOB	PA	#450
7.	19:30	KB8RRG	449	559	DAVID	OH	
8.	19:42	NU8Z	569	569	MARK	MI	#1431
9.	19:55	VE1MT	449	549	LAYTON	NS	#1448

72,

John, W2MBY
age:11

Date: Sat, 14 Feb 1998 22:54:00 -0500
From: "tom palmer" <n1tp@worldnet.att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [3879] dits & dashes
Message-ID: <19980215155328.AAA91@default>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

How about: She is his 5th sis es she hisses es fishes.

Date: Sun, 15 Feb 1998 11:42:17 -0500
From: "Mike Rhodes" <weightdn@bright.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3880] LDG AT-11 Fine Tuning ??l
Message-ID: <01bd3a30\$ad57de20\$LocalHost@weightdn>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just finished building my AT-11 and it plays fine. It automatically matches some pretty nasty loads to 1.5:1.

However, I seem to remember some hints as to how to make the AT-11 seek a little closer to a 1:1 match automatically. Any info will be appreciated.
Thanks and

72/73 de Mike, W8DN

Date: Sat, 14 Feb 1998 18:11:55 -0800
From: "Frank A. West" <ke6vbm@earthlink.net>
To: <Shepherd@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3881] Re: N8VZU/AG
Message-ID: <199802151700.JAA01426@norway.it.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Congrats Dan,

Don't know if you can run that N/T fox hunt or not. But it does mean you have a lot more band to play on. Good going.

72 de KE6VHM Frank

> From: Shepherd@aol.com
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: N8VZU/AG
> Date: Saturday, February 14, 1998 12:01 PM
>
> Well people, I went and did it! I'm now a General class Ham!!!!
> As a matter of fact I even got my 20 WPM code, man was this a surprise.
> I need to know if this means I can't run my scheduled N/T+ Fox Hunt
Sunday
> night?
>
> Any way, I'm as happy as a pig in mud.
>
> 72, 73
> Dan, N8VZU/AG
> QRP-L #1404
>

Date: Sat, 14 Feb 1998 18:17:16 -0800
From: "Frank A. West" <ke6vhm@earthlink.net>
To: <eakwik@mail.hac.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [3882] Re: Am I ready? Update
Message-ID: <199802151700.JAA01439@norway.it.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Fantastic Ed - CONGRATULATIONS
See what you can do if you put your mind to it.
And all at once - that is great.
Only two more written tests to go.
72 de KE6VHM Frank

> From: eakwik@mail.hac.com
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Am I ready? Update

> Date: Saturday, February 14, 1998 2:00 PM
>
> I want to thank all of the list members who gave such great advise
and
> encouragement. I posted a question a couple of weeks ago asking if
I
> was ready to take my exam. The replies of just do it and go for it
> were fantastic. Several mentioned that I should try to pass the
> higher code and written exams because I had nothing to loose. Well
> you were right. I spent the last couple of weeks listening to high
> speed code and coping as much as I could rather than staying at 10
wpm
> and striving for 100% copy. I took my exam this morning. Not only
> did I pass the novice, tech, and general written tests, I also
pasted
> the 20 wpm test. Again, thanks everyone, I could not have done it
> with out the help from this list and the support from my wife and
> family.
>
> 73's
> PS Got a ZM-2 for a Valentines day present!
>
> Ed Kwik NO_CALL but not for long QRP-L #1444
>

Date: Sun, 15 Feb 1998 09:20:06 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: John Anthony Reynolds <D2250077@infotrade.co.uk>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3883] Re: QRM from RTTY
Message-ID: <Pine.SUN.3.90.980215091042.13712A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi John,

Well, from what I've seen of band plans, they are just some
starting points. Nothing cast in stone. In fact, look at
7040! All depends where you are from for who is "supposed"
to be there!

I have never had a problem with contests. There are so many
bands to play on that I always manage to have fun! If things
get really noisy I might even get some chores done around
the place!

Contest operations do get a bit aggressive. But I don't think of them as lids. They are just out having fun also.

If it was all day every day I'd feel differently. But a weekend here and there doesn't bother me.

One of the best things to do is join them. Get something running on RTTY and have fun.

That's what I'm going to do one of these days.....

I have also heard the same complaint about DX stations causing pile-ups.

The thing that gets under my skin here in the western USA is the SSB stations down at 7002 and etc. All speaking spanish (or what sounds like spanish). My guess is that most are unlicensed and the Mexican govt will not do anything to bring it under control.

At least the RTTY guys are licensed!! :-)

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Sun, 15 Feb 1998 12:22:29 EST
From: nq2rp@juno.com (B/BAMS Club Station)
To: ae4ic@nr.infi.net, qrp-l@Lehigh.EDU
Subject: [3884] Re: Knightlite SMiTe
Message-ID: <19980215.122140.4711.2.nq2rp@juno.com>

MAN!!! You don't KNOW what you guys (and gals??) have started!

I took SMiTe #90 and #91 to the Brockport Amateur Radio Klub (BARK) meeting on Thursday, and enough of the members wanted a SMiTe that they were collecting cash for a group purchase. George, N2UI0 was going to send the order out for at least 6 of the SMiTe's on Friday!

Do I smell a WNY SMiTe Net? Will Pixie's be allowed? Or how about Tixie's???

Stay tuned for further developments!

72/73, Keith, WB2VUO at the keys at B/BAMS
NQ2RP - QRP-L # 1294, Byron/Bergen AMateurS Club Station
Listen for our 10 Mtr Milliwatting Beacon: 125 mW @ 28.287 MHz
"Our night light runs more power than our Rig!!!"

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 15 Feb 1998 11:25:59 -0600
From: "JUNIUS B FOX" <w5hir@gte.net>
To: <weightdn@bright.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [3885] Re: LDG AT-11 Fine Tuning ??l
Message-ID: <01bd3a36\$c825b000\$5a6afed0@w5hir.gte.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike, when you find out, and I happen to miss it, please send me a personal
e-mail and let me know what you find out...

regards,

foxy w5hir@gte.net

Date: Sun, 15 Feb 1998 09:28:05 -0800
From: Monte Stark <ku7y@dri.edu>
To: cebik@utkux.utcc.utk.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [3886] Re: SWLmer Prerequisites: Metering
Message-ID: <34E725A5.2599DC4C@dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All,

Just to reinforce what LB said....

When you are doing any alignment or tuning and you are watching a voltage, use an analog meter! No digital made, (at least in the price ranges we care to think about) will let you see what is happening in real time.

The "swing" of a needle just can't be replaced.
Many have tried but little lights jumping on and off just don't do the trick.

For less than \$10 you can get a little meter that will do most of what you need for alignment chores.

OK, back to my hole..... lost my 17" Gateway monitor this AM. Now using a little bitty Zenith..... everything looks so funny!

cul,

--

73, Ron, KU7Y

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M
QRP ARCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Sun, 15 Feb 1998 17:44:55 GMT
From: TonyDrumm@ibm.net (Tony Drumm)
To: qrp-l@Lehigh.EDU
Subject: [3887] FYBO report - a bit late!
Message-ID: <199802151744.RAA53374@out1.ibm.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This year, it seemed like there were too many things to do to plan out FYBO well. Hasn't ended either, which explains why I'm sending this over a week after the event!

So, I used my home station in the basement using battery power. The beauty of living in Minnesota is that the basement temp is below the 65F needed to use a multiplier more than 1. The bands seemed noisy to me here, and I probably worked as hard as I ever had to pull stations out of the noise.

The highlight of the day was almost when I nabbed Bruce in Alaska, but I just couldn't hear all of his exchange. He was patient and I received most of it, but never heard "AK" even though I knew what I was listening for, or his power.

Don't you just hate when you clearly hear your callsign DE his callsign, then the signal fades as he sends the part you wanted? Too bad, and I'm sure the problem was more on my end than his 8^).

I wasn't on the air continuously and never tried anything after the NA stations began, so I managed only 17 QSOs. But I did manage 14 states, and had my second ever QSO with Ade. Haven't done the math yet, but I also turned down my power to 950mW for the first time in a contest. With the noise, I was still able to work whomever I could hear. Pretty cool!

72.

Tony Drumm
ARS AA0SM, Rochester, MN

Date: Sun, 15 Feb 1998 12:46:35 EST
From: N3BJ@aol.com
To: qrp-1@Lehigh.EDU
Cc: tentec@contesting.com
Subject: [3888] FS: TenTec Argosy II + PS
Message-ID: <789be784.34e729fe@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

For sale: TenTec 525D Argosy II w/matching power supply. Works great, small dent in top cover, a few scratches, but otherwise fine, front panel nice. Power supply has some scratches, but otherwise fine. Includes built in audio filter and noise blanker. TenTec hand mike included. Original manual.

\$375 shipped CONUS

Alan, N3BJ
Bent Mountain, VA

Date: Sat, 14 Feb 1998 18:50:31 -0500 (EST)
From: "Robert D. Haslach" <rhaslach@CapAccess.org>

To: B/BAMS Club Station <nq2rjp@juno.com>
Cc: qrp-l@Lehigh.EDU
Subject: [3889] Re: Laser QRP
Message-ID: <Pine.SUN.3.91-FP.980214184547.23488A-100000@cap1.capaccess.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This is just great! Thanks Keith. I have the RS LX1100, but have been unable to "crack it open" and so have been modulating the signal with my right thumb. True CW keying (hi!). Ordered the current \$20 laser pen from Damark and hope to get it before they flood me completely with new and special offers for everything from hotel discount cards to "your choice from more than 130 magazines..." Sheesh!
There is a web site of interest to all laser-ites: www.qsl.net/k3pgp/ of John Yurek. This guy has been working the laser line pretty well. I'll keep the group posted on all aspects of the experiment - failure and success.

Regards,
Robert D. Haslach
N3FRT
Bye

Date: Sun, 15 Feb 1998 09:19:25 -0500
From: Paul Stroud <aa4xx@ipass.net>
To: QRP-L <QRP-L@Lehigh.EDU>
Cc: klqrp <klqrp@waterw.com>
Subject: [3890] 160M QRPP Beacon Summary
Message-ID: <34E6F96D.5CADA53C@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

Many thanks for your reception reports for the Saturday night 160M beacon session. The following folks copied the 250mW codeword "ROSE:"

WA1QVM	Joel	Concord,	MA	339 (sez try less pwr)
0042Z W3RDF	Don	Myrtle Beach,	SC	329 random wire ant
N1QQV	Ken	Madison,	CT	
N1XME		Killingworth,	CT	
N1XUW		Guilford,	CT	

0027 N2TNN Dean Somerset, NJ 479 random wire, FT-890
0226 K1XS Ken 349 80M dipole, FT-840
0624 WA4NID Dave Durham, NC 439 80M dipole,
TS-440

Tonight's session will be a serious challenge, the power being reduced to 100mW. The frequency will remain at 1810 KHz. The beacon will run from 7PM - 7AM EST. Please include time, RST, location, rcvr, and antenna info in your reception reports.

The 160M vertical will be dismantled later this week in preparation for its use during the KnightLite's Core Banks QRPedition the last weekend in March. For details on this expedition, please refer to:
<http://www.ipass.net/~aa4xx/core.htm>

72 es happy listening! de Paul AA4XX nr Raleigh, NC

Date: Sun, 15 Feb 1998 14:07:55 -0500
From: Ed <edn4pk@VoyagerOnline.net>
To: D2250077@infotrade.co.uk
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [3891] Re: QRM from RTTY
Message-ID: <34E73D0B.7EA085C2@VoyagerOnline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John and the group,

Last night on 40 meters was a complete washout. RTTY from 7.029 to 7.100 most of the stations were over s9. My little Century 21 went into overload and I went to 30 meters and did some op there. Guess this is just a part of it all. But a little courtesy never hurt anyone...no matter what

72/73..Ed N4PK

p.s. Glad to see some people add their call to thier message..tnx John

Date: Sun, 15 Feb 1998 14:13:47 -0500
From: W2MY & W2MBY <n2mnn@spacegate.com>
To: QRP-L messages <QRP-L@Lehigh.EDU>, Chuck Adams K5FO
<adams@chuck.dallas.sgi.com>

Subject: [3892] Typo in Fox hunt report
Message-ID: <34E73E6B.32F47927@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry, but there was a typo in my Foxhunt report.
Joel's call is WA2QVM, not wa2vqm, and its OK in the log.

72,
John, W2MBY

Date: Sun, 15 Feb 1998 14:32:20 -0500
From: jim <kw3u@warwick.net>
To: qrp-1@Lehigh.EDU
Subject: [3893] For Sale argo-505
Message-ID: <34E742C4.2648@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Price Reduction:

Didn't get any bites on the Ten-Tec Argonaut 505 for 225\$,
soooo will drop it to \$200 shipped and see what happens.
Excellant operating condx,very good looks, copy of manual,
rebuilt PTO,alignment,and new dial cord last year by
Ten-tec.

Jim kw3u

Date: Sun, 15 Feb 1998 15:03:38 -0500
From: "Bob Edwards, W4ED" <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: "Ron Pace, AA4RP" <aa4rp@amsat.org>
Subject: [3894] FYB0'98
Message-ID: <34E74A19.4BB3D3EA@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Misplaced my loading coil for SLV type vertical just before
making the trip to Bethesda park, Gwinnette Co. The plan was

to use a right angle structure to hold the SLV support nail,
then drive the car onto the horizontal part of the right angle.
That worked and I'll place a pix on WWW page if it turns out.
The right angle structure was simple: a vertical 2x4 bolted
onto the horizontal flat piece of 1/4" aluminum stock.

The vertical went up quickly and tuned 15/20/40m OK. Radiation
was no doubt poor on 40m even though the SWR was good. One
trick worth mentioning, not original with me, was to place
a 2m mag mount on aluminum foil for coupling onto the car trunk.
That allowed the car to act as a counterpoise without the
need to drill holes. Then used a 5/8 wv 2m in its normal place
on the mag mount as the lower part of the SLV. A clip was
supposed to connect the tip of 5/8 wv to the SLV coil, with
adjustment on the coil as needed. Well, no coil this time,
just a vertical #22 wire.

Combination of vertical antenna and propagation gave good
contacts to west coast (& local) but few QSOs in midwest.

Those of you that sat in a car know what I'm gonna say. The
seat stayed warmest, feet were coldest, and everything else
was just plain cold. Unusual for Atlanta metro, 38 degrees F
in the park, 36 F at the weather station.

Rig was FT-840 turned down, marine battery, TFR paddle, ATU.
Ran 5 watts, worked most stations heard, but not all.

Best DX was Bruce, KL7JAF, AK, 449 <--> 449, some QSB.

Had 17 S/P/Cs in 37 QSOs during 3 1/2 hours operation.

15m 9 QSOs
20m 26 QSOs
40m 2 QSOs total points 20,128

If you contacted AA4RP, it was special. He has been QRO and
this was his first go at CW QRP. I kept sending him those
"so cool" posts about FYBO and he finally bought into QRP.
Maybe, he thought, "it's easiest way to QRU that QRP ham !"
Hope we'll hear him so more on the QRP frequencies.

--

Bob 72/73

<http://www.qsl.net/w4ed>
W4ED nr Atlanta @EM73wt

...."QRP", more from less....

```
      /|
     / |
    | / | \
   /| / E | \
  /_||_----|_--\
 [\-----/
```

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-----  
Date: Sat, 14 Feb 1998 19:00:17 -0500  
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
To: Shepherd@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [3895] Re: N8VZU/AG  
Message-ID: <34E63011.7857@postoffice.worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Way to Go Dan!!! Congratulations on the upgrade to General Class.

--

\*\*\*\*\*  
\*\*\*\*\*

73 de  
KI8CZ  
Tom Isgro  
OHIO

<http://www.qsl.net/ki8cz>

|               |           |            |          |
|---------------|-----------|------------|----------|
| 10-X #68364   | SCI #1479 | QRP-L #945 | ARS #203 |
| C.A.T.T #2115 | FIST 2360 | NORCAL     | ARRL     |

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Date: Sat, 14 Feb 1998 19:02:07 -0500  
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
To: eakwik@mail.hac.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [3896] Re: Am I ready? Update  
Message-ID: <34E6307F.4C9B@postoffice.worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Nice going Ed, I told you so! General after one day, Great job.

--

\*\*\*\*\*  
\*\*\*\*\*

73 de  
KI8CZ  
Tom Isgro  
OHIO

<http://www.qsl.net/ki8cz>

|               |           |            |          |
|---------------|-----------|------------|----------|
| 10-X #68364   | SCI #1479 | QRP-L #945 | ARS #203 |
| C.A.T.T #2115 | FIST 2360 | NORCAL     | ARRL     |

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-----  
Date: Sat, 14 Feb 1998 19:06:41 -0500  
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
To: resmith@primenet.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [3897] Re: Am I ready? Update  
Message-ID: <34E63191.789@postoffice.worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'll second that Ed. No reason to stop now. You have the 20 wpm credit  
and one year to make Extra before it expires. Go man go. Ron Smith wrote:

>

> What to go Ed. Congratulations. Now that the iron is hot, keep going. Hit  
> them books for Advanced and Extra. :-)

>

>--

\*\*\*\*\*  
\*\*\*\*\*

73 de  
KI8CZ  
Tom Isgro  
OHIO

<http://www.qsl.net/ki8cz>

|               |           |            |          |
|---------------|-----------|------------|----------|
| 10-X #68364   | SCI #1479 | QRP-L #945 | ARS #203 |
| C.A.T.T #2115 | FIST 2360 | NORCAL     | ARRL     |

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Date: Sun, 15 Feb 1998 12:44:11 -0800  
From: Laura Halliday <ve7ldh@direct.ca>  
To: qrp-l@Lehigh.EDU  
Subject: [3898] PICs and stuff, part 3 (long)  
Message-ID: <34E7539B.4007B73B@direct.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Now that we've had a chance to digest the last messages on the subject, let's look at an example: sequencing transmit-receive switching in a radio. This is the kind of low-level bit pushing at which microcontrollers excel. Mainly because they were designed to...

The problem: given an input that says "transmit" or "receive", when it changes, we want to switch stages in the right order, at the correct time, checking that things have happened as they should.

Let's suppose our hypothetical transceiver requires the following steps to change from receive to transmit:

- mute receiver
- switch VFO to transmit, wait 5 ms for PLL to lock
- activate antenna relay, wait until it engages
- activate transmitter
- turn on transmit light on front panel

To go from transmit to receive, we perform these same steps in the opposite order. You can see how difficult this might be with random logic - but a microcontroller makes it dead simple.

We see that we have two inputs: transmit/receive, and the state of the antenna relay. There are five outputs: receiver mute, VFO control, antenna relay, transmitter enable, and the front panel light.

Before we start writing assembly code, we need to work out our algorithm. A particularly effective way to do this is by successive refinement, also called structured programming. We start with a description of the problem and successively fill in the blanks until we have the problem in enough detail to commit it to a programming language and execute it on a computer.

Our problem is then:

Sequence transmit/receive switching for a transceiver.

We first expand this to:

Initialize system  
Loop from here:  
    set system to receive  
    as long as the TR line says receive, do nothing  
    when it says transmit, make sure it's for real  
    switch system to transmit  
    do nothing while TR line is in transmit mode  
    when it says receive, make sure its for real  
    go back to top of loop

Even at this point we can check that the system will work correctly. Suppose we did something like this:

Initialize system to receive  
Loop from here:  
    as long as the TR line says receive, do nothing  
    when it says transmit, make sure it's for real  
    ...

This would result in a system that would come in receive mode (OK), switch to transmit (OK), and stay in transmit (bug!), because we never switch it back.

Ignoring, for the moment, the details of the transitions, we need to read and properly evaluate the information on the transmit/

receive line. The catch is that switches bounce, and any decent microprocessor is more than fast enough to see the bounce. So let's do something like this for the receive -> transmit transition:

```
does the TR input say "receive"?
  yes: keep checking
  no: wait a few ms for the bounce to settle

test the input again
  transmit? keep going
  receive? go back and check some more
```

We can fill these details in to produce this pseudo-code:

Initialize system

Loop from here:

```
  set system to receive

  does the TR input still say "receive"?
    yes: keep checking
    no: wait a few ms for the bounce to settle

  test the input again
    transmit? keep going
    receive? go back and check some more

  switch system to transmit

  does the TR input still say "transmit"?
    yes: keep checking
    no: wait a few ms for the bounce to settle

  test the input again
    receive? keep going
    transmit? go back and check some more

  go back to top of loop
```

Let's now consider the mechanics of switching the system. To go from receive to transmit,

```
mute receiver
switch VFO to transmit, wait 5 ms for PLL to lock
activate antenna relay, wait for confirmation and debounce
activate transmitter
turn on transmit light on front panel
```

Since the antenna relay's status is relayed by a mechanical switch, we want to do the same thing with it as we did with the TR input: once we see an indication, wait for the switch to stop bouncing and check again. "Wait for a few milliseconds" is a task that keeps coming up: 5 ms for the PLL, "a few" for the switch debouncing.

The RISC structure of the PIC microcontroller makes real-time delays easy to implement. With the processor clock running at 4 MHz, each instruction requires four clock cycles, or 1 micro-second, to execute (except for branches, which take 2 us). To delay one millisecond, we could theoretically have the processor execute 1000 instructions (\*any\* instruction, except for branches), and then go back to work. We can't do this: the processor doesn't have enough memory to hold that many instructions. So we need a loop. But it's easy to calibrate, since we know exactly how long it will take.

To go much further than this would require writing PIC assembly code. As an example of why you don't want me to, the assembly code for this pseudo code:

```
does the TR input still say "receive"?
  yes: keep checking
  no: wait a few ms for the bounce to settle

test the input again
  transmit? keep going
  receive? go back and check some more
```

might look something like this:

```
RXwait    btfsc    XVTRinputs, TRsense    ; still in RX mode?
          goto RXwait                    ; yes.
          movlw    5                      ; no: prepare to debounce
          call MSdelay                    ; wait a bit
          btfsc    XVTRinputs, TRsense    ; was it real?
          goto RXwait                    ; no, keep waiting
```

...and so on. Do you really want this on a Monday morning?

With that, I conclude this series. I hope I've shown you why microcontrollers are important to ham radio, and given you a taste of the sort of things you can do with them, with ideas on functions that are dead simple to implement that would be tough to implement otherwise (like the example in this message, waiting until we have confirmation on the

TR relay before proceeding). Not bad for a \$US5.00 chip.

Where do we go from here? Buy or build a simple PIC programmer and learn how to use it. Consider applications. Try them. Write them up for the magazines, or for the list.

Above all, don't take \*my\* word for it - try it yourself, and have fun!

...laura

-----  
Date: Sun, 15 Feb 1998 12:52:56 -0800 (PST)  
From: herr@ridgecrest.ca.us (Michael Herr)  
To: qrp-1@Lehigh.EDU  
Subject: [3899] RE>QSLing Sputnik 40  
Message-ID: <v01530500b10d3e03e662@[199.120.150.95]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>From the AMSAT list:

>>

>

>If you were fortunate enough to hear the signal from Sputnik before it went  
>silent

>you can send away for a SWL (Short Wave Listener) card from one of two  
>addresses.

>If you head the satellite on more than one occasion, only send away for  
>just ONE (1) card.

>In an earlier memo, I posted the wrong ZIP code and old city name. The  
>good news is,

>that people who used the old address do not have to worry. Most of the  
>cards to the old

>address are being delivered to the correct address.

>

>Include with your card, the Date and UTC time you heard the signal.

>Envelopes should be well sealed and do not include cash.

>Send a SAE (Self Addressed Envelope ) and one or two IRC coupons (which can  
>be purchased at major US post offices).

>Do not make any notes on the out side of the envelope with Amateur Radio

>Call signs visible.

>Dave Larsen MIREX / N6CO is not handling SWL cards for Sputnik, please use  
>the address below.

>

>QSL Information for SWL (Short Wave Listener)



>Sergej Samburov  
>PO Box 73  
>Korolev-10 City  
>Moscow Area, 141070, Russia  
>  
>There is another address given for QSL-ing on the Sputnik home page  
>(<http://www.oceanes.fr/~fr5fc/angspoutnik.html> , the English  
>language version), which states under "Listeners" and I quote: "PSE send  
>your reports (envelope+irc) at FR5KJ radio club. FR5KJ  
>radio club will send you back a diploma.  
>  
>FR5KJ radio club  
>College Jules Reydellet  
>103 rue de la Republique  
>97 489 Saint Denis Cedex  
>Reunion Island.  
>

-----  
Date: Sun, 15 Feb 1998 11:49:42 -0600  
From: The Boices <boice@bigfoot.com>  
To: qrp-1@Lehigh.EDU  
Subject: [3900] PV-powered battery chargers  
Message-ID: <3.0.3.32.19980215114942.0068dd74@students.wtamu.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

This isn't directly QRP, so pardon my indiscretion.....but I figure  
someone here probably knows.

Does anyone here have one of those PV panel-automobile battery trickle  
chargers? You know, the ones that you lay on the dashboard, and plug into  
the cigarette lighter, designed to keep an battery alive for long periods  
of inactivity? I've got a 5.5W PV panel that I plan to use for running the  
Sierra, but thought about using it for automobile battery trickle charging  
at other times. I thought I'd put a molex-type connector on the panel to  
use it for multiple purposes.

I'm curious as to what electronics or regulators (if any) these units use.  
Or can an automobile battery be safely "trickle" charged at up to 375 mA  
(the output of my panel)?

Mike Boice  
KD0FX Canyon, TX

-----  
Date: Sun, 15 Feb 1998 17:20:13 -0500  
From: kt3a@juno.com (Cameron C.R. Bailey)  
To: qrp-l@Lehigh.EDU  
Subject: [3901] Wanted: RTTY software  
Message-ID: <19980215.172549.6774.2.kt3a@juno.com>

I just picked up a MFJ-1224 to do QRP RTTY with.  
Any comments on what software to use? MFJ sells  
some with a cable (TTL to RS-232 interface?), but it  
costs more than I paid for the 1224!  
Respond direct onnly please. Too late for the contest  
this weekend, but the next one, I'll be ready.  
72,

BTW, I love CW too.

Cameron C.R. Bailey  
Mount Wolf, Pennsylvania  
kt3a@juno.com

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Or call Juno at (800) 654-JUNO [654-5866]

-----  
Date: Sun, 15 Feb 1998 17:25:44 -0500  
From: kt3a@juno.com (Cameron C.R. Bailey)  
To: qrp-l@Lehigh.EDU  
Subject: [3902] FDIM registrations coming in  
Message-ID: <19980215.172549.6774.3.kt3a@juno.com>

Yes, there continues to be a steady flow of  
registrations coming in for FDIM at Dayton.  
When I have 50 in, I'll post the registrants.  
Every 50 after that will be posted as well.

See the web site for QRP ARCI for info on all  
the FDIM events. [www.qrparci.org](http://www.qrparci.org)

Amateur Radio QRP presentations, workshops and demonstrations will be the focus of the full day Thursday QRP Symposium to be held at QRP headquarters - the Days Inn Dayton South. Last year, this sold-out event had a "standing room only" crowd of 125 enthusiastic attendees. FDIM QRP Symposium attendees will start their day with a wake-up coffee social and then plunge into a full day of multimedia QRP presentations by renowned QRP authors and designers. Some sampling of topics already on the slate are Antenna Feeders, PCB Alternatives, G3RJV Six-Pack, Coherent CW, Transistor Modeling, Beyond the NE-602, QRP PIC Designs, and more. Culminating this first day, will be an evening QRP ARCI Author Social for folks to meet the QRP presenters. All are invited. The QRP ARCI "Four Days In May" 98 QRP Symposium will be the talk of the Dayton Hamvention.

FDIM QRP SYMPOSIUM REGISTRATION - Registration for the Thursday, May 14, 1998 FDIM QRP Symposium will be \$10 if prepaid by May 1, 1998 and \$12 after that date, or at the door. "At the door" registration may be limited if, once again, we sell out. Please register early to guarantee a seat. Registration will cover a full day of QRP Symposium activities, which include the QRP technical presentations, "Six-Pack" printed circuit board kit, those famous "special" Symposium bag stuffers and an endless QRO coffee pot. The \$10 registration fee also includes a complimentary copy of the FDIM 98 QRP Symposium Proceedings.

Please send your \$10 registration fee (US check, money order, international money order) made out to "QRP ARCI" and a SASE by May 1, 1998 to: Cameron Bailey KT3A, FDIM Symposium Registration at PO Box 173, Mt. Wolf, PA 17347  
E-mail: kt3a@juno.com for information.

I hope to see you there.

Cameron C.R. Bailey, QRP-L #7

Mount Wolf, Pennsylvania  
kt3a@juno.com

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Or call Juno at (800) 654-JUNO [654-5866]

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Date: Sun, 15 Feb 1998 17:43:02 EST  
From: penzo@juno.com (Michael A Penzo)  
To: qrp-l@Lehigh.EDU  
Subject: [3903] TKIT 1340 advice  
Message-ID: <19980215.173749.4839.2.penzo@juno.com>

I recently completed my tkit 1340. It's a great little rig for the price and I really like the smooth QSK and the hot RX (4 watts out isn't bad either).

Couple of questions for the group:

- 1) I'm thinking about installing a 10 turn pot for main tuning but I was wondering what the best way to keep track of freq would be? Don't really want to use a turns counter as I have heard that they ruin the "feel" of the pot.
- 2) Had a 1 hour rag chew earlier today and noticed that it started to drift about 20 minutes into QSO, probably as the TX final warmed things up. The rig had been on most of the morning and should have had plenty of time to stabilize since initial power on. It was not a significant amount of drift but the station I was talking to did mention that he had to chase me with his RIT a bit.

Any suggestions? Is the small amount of drift during a long QSO normal for this rig? Thanks in advance for the help,

Mike Penzo, KT4FJ  
Stafford, VA.

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Or call Juno at (800) 654-JUNO [654-5866]

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Date: Sun, 15 Feb 1998 05:43:02 -0600  
From: "Bruce Barley" <lbbbarley@feist.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [3904] FOUND! RS #22-305 freq. counters - still on shelf  
Message-ID: <199802152344.RAA25746@wichita.fn.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

I phoned one of our local Radio Shack stores, here the Wichita, KS area to inquire about the Model 22-305 frequency counter being closed out. The person on the phone said he had one, so I asked if he would set it back with my name on it, for pickup tomorrow morning. "Why?", he said. "My computer shows we have qty 6-11 on hand in our store. " There may be some others knocking about, as well.

Store: Radio Shack  
1050 S. Oliver  
Wichita, KS 67218  
  
(316) 685-5226

Associates name: Mike

Good luck to all - If they won't ship, contact me OFF-line. Maybe we can do something to get one to you...

Bruce KB0PZD qrp-l # 69  
lbbbarley@feist.com

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End of QRP-L Digest 1002

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